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(71) Applicant (for all designated States except US): **THE UNIVERSITY OF WAIKATO [NZ/NZ]**; Gate 5, Hillcrest Road (no number), Hamilton, 2001 (NZ).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **DORRINGTON, Adrian, Andrew [NZ/NZ]**; 48c Paterson Street, Dinsdale, Hamilton, 2001 (NZ).

(74) Agents: **MURPHY, Simon, J et al.**; Private Bag 3140, Level 12, KPMG Centre, 85 Alexandra Street, Hamilton, 2001 (NZ).

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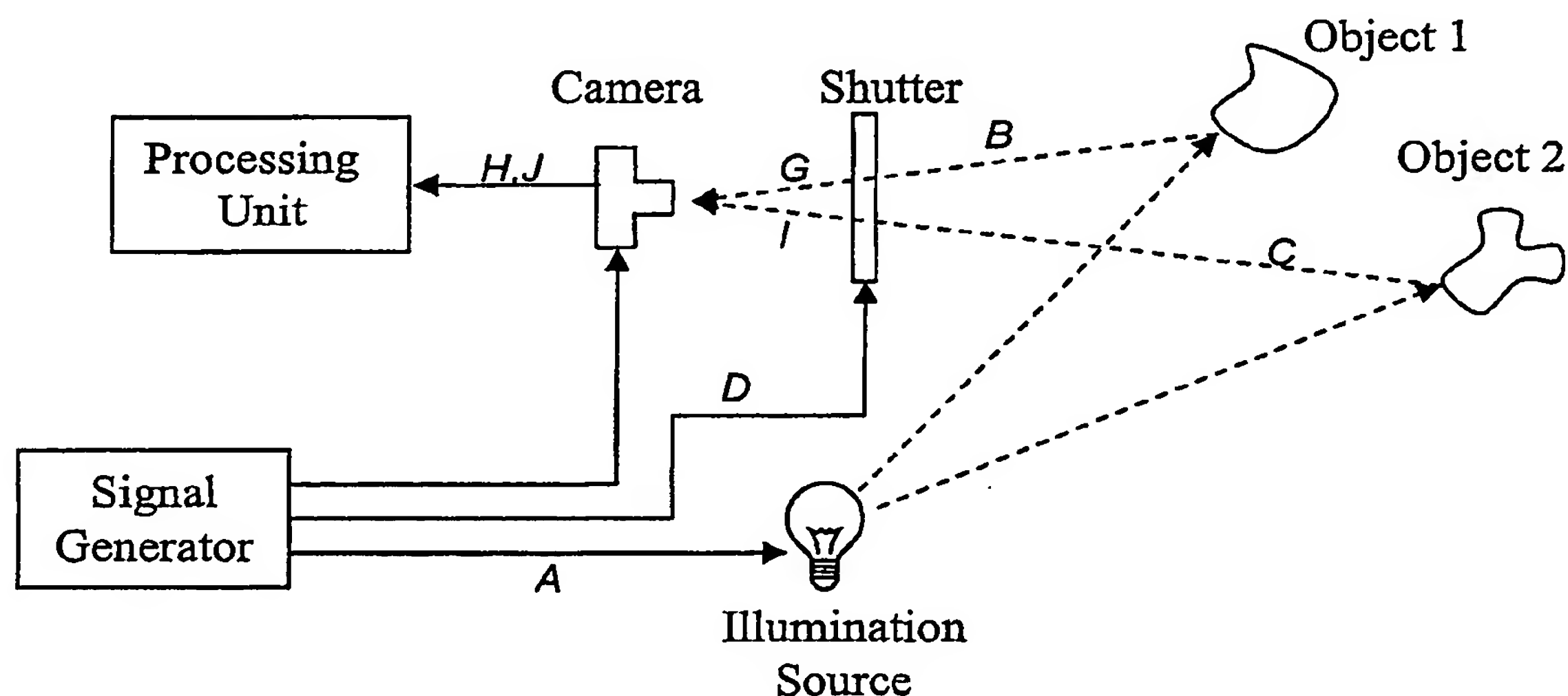
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(54) Title: RANGE SENSING SYSTEM



(57) Abstract: The invention relates to a range sensing system. An energy source is adapted to emit energy which is capable of reflection by a target. The energy source is activated and deactivated in a cyclic pattern with a selected source frequency. A receiver is adapted to sense the reflection of emitted energy from the target. The receiver includes a shielding system to block the sensing of reflected energy from the target in a cyclic pattern with a selected receiver frequency. The output signal of the receiver is compared with a reference signal whereby the phase differences between the receiver signal and reference signal is used to determine a range value.